Instructions for Creating 1990-2000 Industry Crosswalks, Using the Industry Crosswalk Template

May 15, 2003

Introduction

On this website you will find national-level industry and occupation (I&O) crosswalks that provide 1990 Census I&O data converted into their equivalent Census 2000 categories, and a comparison of these 1990 data to 2000 data. Data users may want to do similar comparisons for sub-national geographic areas, such as states or counties. Using the "Template" described in these instructions, data users can apply national conversion factors to 1990 data for any geographic areas (see the "warning" below, however). The instructions below assume that a data user trying to follow these instructions is familiar with the Microsoft Office Suite, including Excel spreadsheets, but is not completely familiar with the Census Bureau's data sets as found on our American FactFinder (AFF) website. You can use these instructions to create other spreadsheets instead of Excel, but you may have to make formatting adjustments not described here.

These instructions also work best if you use Microsoft Internet Explorer to download data from the AFF. These instructions will explain some differences in other Internet browsers, but it is virtually impossible to anticipate all the variations that different browsers can cause. We strongly recommend that you first download the template and print these instructions, and then match the illustrations of each step to what you see on your own computer screen to be sure you are at the right place. Note, however, that the Census Bureau changes the appearance of the AFF pages at times, so what you see on your screen may not match exactly what is shown in these instructions.

AFF now provides data from both the 1990 Census and Census 2000. The data sets used to display I&O data for all states are the 1990 Summary Tape File 3 (STF-3) and 2000 Summary File 3 (SF-3). The Census 2000 SF-3 on the AFF shows I&O data in "Detailed Tables" and "Quick Tables," which include a "Demographic Profile of Economic Characteristics." The Profile provides a subset of the categories found in the detailed tables.

For industry and occupation data, however, you cannot compare the categories directly across the two years. The wording of the categories is different, and, even when the words *appear* to be the same, the definitions of the categories are sometimes different. For example, major parts of "Retail trade" and "Entertainment and recreation services" were defined differently in 1990 than in 2000, even though these words appear in industry tables from both censuses. These differences were caused by the revisions to the North American Industry Classification System (NAICS) and to the Standard Occupational Classification (SOC). The Census 2000 I&O categories were derived from these two standard classifications, respectively.

The crosswalks described in these instructions will convert the 1990 STF-3 data to a 2000 basis by redistributing them into the 2000 SF-3 categories. The crosswalks perform this comparison and calculate the changes from 1990 to 2000 according to the Census 2000 SF-3 categories. At the same time they calculate similar comparisons for the categories shown in the 2000 "Quick Tables."

Warning. The formulas contained within this crosswalk template are based on nationwide changes between 1990 and 2000 categories, as measured by two sources: the Census 2000 Classified Index of Industries, and a sample of responses from the 1990 Census that were "double-coded" into both the 1990 and 2000 Census categories. Different crosswalks could be created based on many different variables, including geography, sex, and race. For example, the crosswalk for industrial and occupational distributions is likely different in New York compared to Kansas, and for men compared to women. To create many different crosswalks depending on all characteristics, however, would require a very large sample controlled for all these variables. Neither financial nor human resources were available to create and analyze such a large sample. For this reason, data users using this template will have to apply the same adjustment factors and distributions to all levels of geography, both sexes, and all other characteristics, even though we know this is not a perfect method for comparing I&O data in all circumstances.

It is also possible to convert the 2000 categories into those for 1990 in order to make comparisons over time. We recommend against this conversion for two reasons: 1) the conversion factors used in these crosswalks were based on a sample of responses from the 1990 Census that were re-coded into the 2000 classifications¹; and 2) intuitively it seems better to move forward to the present and express the labor force of 1990 in 2000 terms, since Census 2000 is more up-to-date.

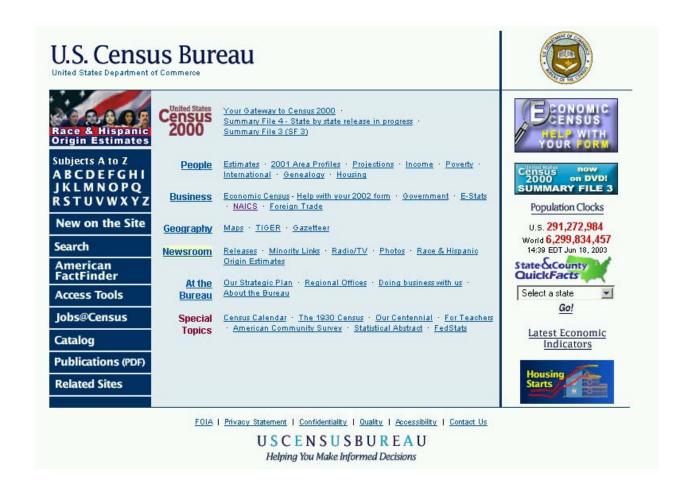
¹ A similar sample from Census 2000 is still being re-coded, but is not yet available for analysis.

Instructions

Part 1: Getting 1990 and 2000 Industry Data from the Census Bureau Website

- 1. Go to the Census Bureau Home Page http://www.census.gov (Figure 1 below)
 - Click on American FactFinder on the left side of the Home page.

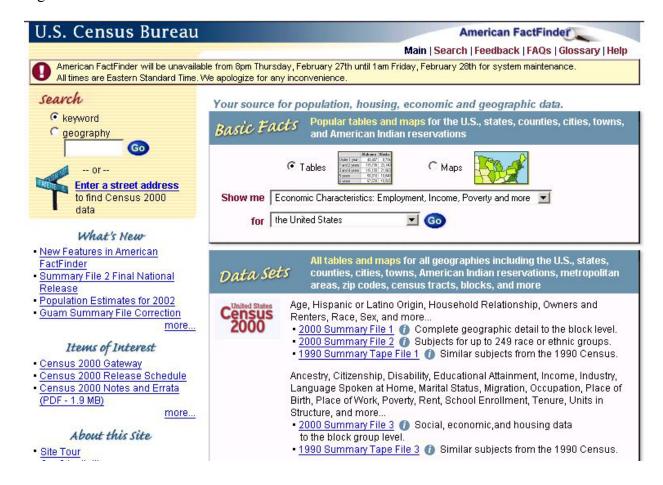
Figure 1 (note that this and other web pages may change from time to time):



Start by getting the 1990 data, which we will adjust to make them comparable to the 2000 data:

- 2. American FactFinder Page (Figure 2)
 - Under "Data Sets" near the center of the page, click on "1990 Summary Tape File 3."

Figure 2:



- 3. Decennial Census Data Sets Page
 - The button for the selected data set will already be marked.
 - Click on "Detailed Tables" at the right of the screen.

Figure 3 (next page):

U.S. Census Bureau

American FactFinder

Main | Search | Feedback | FAQs | Glossary | Help

Data Sets

Decennial

Decennial Supplementary Surveys

American Community Surve

Economic Censuses and Surveys

Load Query | Clear all selections Population Estimates

Select a data set below, or download data sets via FTP | Future Releases

2000 Census 2000 Summary File 3 (SF 3) - Sample Data

Summary File 3 presents detailed population and housing data (such as place of birth, education, employment status, income, value of housing unit, year structure built) collected from a 1-in-6 sample and weighted to represent the total population.

Comparing SF 3 Estimates with Corresponding Values in SF 1 and SF 2

C American Samoa Summary File

This file presents information about housing units and people in American Samoa. All questions were asked of all persons, so both basic subjects (in SF1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.

← Guam Summary File

This file presents information about housing units and people in Guam. All questions were asked of all persons, so both basic subjects (in SF1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.

C U.S. Virgin Islands Summary File

This file presents information about housing units and people in the U.S. Virgin Islands, All questions were asked of all persons, so both basic subjects (in SF1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.

Census 2000 Summary File 2 (SF 2) 100-Percent Data

Population and housing characteristics iterated for many detailed race and Hispanic or Latino categories, and American Indian and Alaska Native tribes.

Census 2000 Summary File 1 (SF 1) 100-Percent Data

Summary File 1 presents counts and information [age, sex, race, Hispanic/Latino origin, household relationship, whether residence is owned or rented] collected from all people and housing units.

108th Congressional District Summary File (Sample)

Data from the Census 2000 Summary File 3 have been retabulated for the newly drawn 108th Congressional District boundaries.

108th Congressional District Summary File (100-Percent)

Data from the Census 2000 Summary File 1 have been retabulated for the newly drawn 108th Congressional District boundaries.

Census 2000 Redistricting Data (P.L. 94-171) Summary File

The Redistricting Data (P.L. 94-171) Summary File contains summary statistics on counts of the total population, for the population 18 years and over, for 63 racial categories, and for Hispanic or Latino origin.

1990 C 1990 Summary Tape File 1 (STF 1) - 100-Percent data

Summary Tape File 1 (STF 1) contains 100% data on age, race, sex, marital status, Hispanic origin, household type and relationship, occupancy/vacancy status, tenure, units in structure, contract rent, meals included in rent, value, and number of rooms.

1990 Summary Tape File 3 (STF 3) - Sample data

Summary Tape File 3 (STF 3) contains sample data weighted to represent total population for 34 population items and 27 housing items and 100-percent counts and unweighted sample counts for total persons and total housing units

> Enter a table number List all tables

List all maps

Detailed Tables

Thematic Maps

Reference Maps

Quick Tables

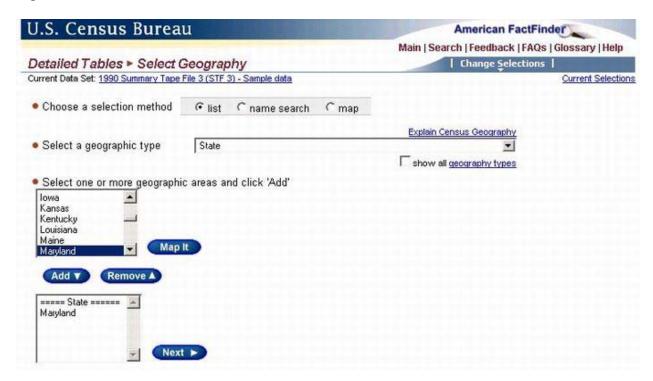
About this data set Technical Documentation (PDF)

Select from the following options:

The letters PDF or symbol indicate a document is in the Portable Documer you will need the Adobe® Acrobat® Reader, which is available for free from the A

- 4. Screen for "Detailed Tables Select Geography" (Figure 4)
 - Select a geographic type (e.g. "State").
 - Select the geographic areas(s) (e.g., "Maryland").
 - Click "Add."
 - Click "Next."

Figure 4:



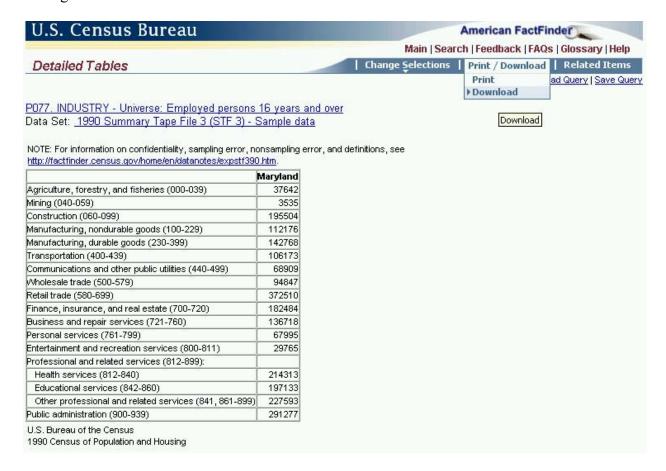
- 5. Screen for "Detailed Tables Select Tables" (Figure 5)
 - Scroll down list of tables and select Table "P077, Industry".
 - Click "Add"
 - Click "Show Table"

Figure 5:



- 6. Page showing the table selected (Figure 6)
 - In the upper right part of the screen (on the same line as "Detailed Tables"), put the cursor on "Print/Download" and click "Download."

Figure 6:



7. Screen for "Detailed Tables - Download" (Figure 7)

Technical Documentation (PDF)

Note: the instructions shown in this step should work when using Internet Explorer, but may NOT work exactly as described for Netscape and other internet browsers. If you are not using Internet Explorer, skip Figure 7 and see further instructions after Instruction 8 below.

- Click the button for "Comma delimited (.csv)." (It may already be filled.) Do **not** click the button called "Microsoft Excel (.xls)," even though that may seem logical.
- Click "OK."

Figure 7:

Detailed Tables > Download Select a download format Explain my choices Presentation (include titles, headnotes, footnotes) Comma delimited (.csv) C Comma delimited (.csv) (transpose rows and columns) Tab delimited (.lst) C Tab delimited (.lst) (transpose rows and columns) C Rich Text Format (.rtf) C Rich Text Format (.rtf) (transpose rows and columns) Database compatible (data rows only) - the download file is a zip file containing one or more data files and a geographic content file Microsoft Excel (.xls) C Comma delimited (.txt) Include descriptive data element names Cancel

- 8. At this point an inset should appear that asks whether you want to open or save this file. Open the file first to be sure you have the right table. It should look something like Figure 8 below, but the column widths may appear squeezed.
 - Adjust the column widths if desired, although this is not necessary for the next steps. If adjusted, the table will look more like Figure 8.
 - Now save the file. In the upper left toolbar, click "File," and then "Save As." <u>It is</u> absolutely necessary that you save the file in a place where you can find it later by following steps a-e directly below.
 - a. **Designate a hard drive** (for example, "C" or "D").
 - b. Designate a directory or folder in which to save your file.
 - c. Change the file type to Excel.
 - d. Your computer may have given the file a default name like "DownloadDT." Change the file name to one that you will recognize, like "1990inddata-MD."
 - e. Click "Save."

Note: For Netscape and other browsers, the "Comma delimited" button may not give you the same results as Internet Explorer. Instead use the button for "Tab delimited," save the file as described in instruction 8 above, and use a "Text Import Wizard" or similar tool provided in the browser to open the file in Excel.

Regardless of which browser you use, you want the final result to look like Figure 8.

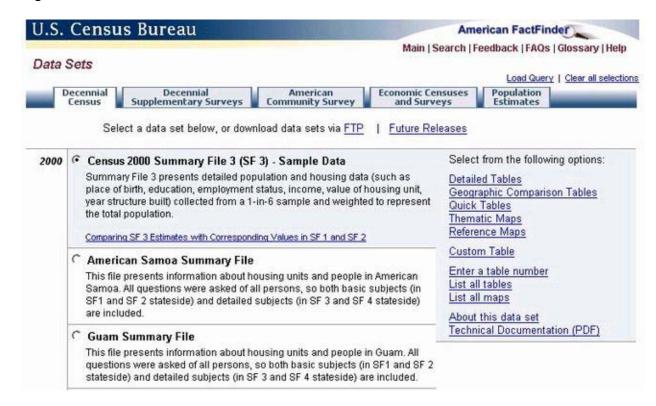
Figure 8:

Data Set: 1990 Summary Tape File 3 (STF 3) - Sample	e data	
NOTE: For information on confidentiality, sampling error, nonsampling error, and definitions, see		
http://factfinder.census.gov/home/en/datanotes/expstf 390.htm.		
330.mm.	Maryland	
Agriculture, forestry, and fisheries (000-039)	37642	
Mining (040-059)	3535	
Construction (060-099)	195504	
Manufacturing, nondurable goods (100-229)	112176	
Manufacturing, durable goods (230-399)	142768	
Transportation (400-439)	106173	
Communications and other public utilities (440-499)	68909	
Wholesale trade (500-579)	94847	
Retail trade (580-699)	372510	
Finance, insurance, and real estate (700-720)	182484	
Business and repair services (721-760)	136718	
Personal services (761-799)	67995	
Entertainment and recreation services (800-811)	29765	
Professional and related services (812-899):		
Health services (812-840)	214313	
Educational services (842-860)	197133	
Other professional and related services (841, 861-899)	227593	
Public administration (900-939)	291277	
U.S. Bureau of the Census		
1990 Census of Population and Housing		
	2481342	

Next get the Census 2000 data. Go BACK to the Census Data Sets page (Figure 9). Steps 9-16 below for the 2000 data are virtually identical to steps 3-8 above for the 1990 data. You can also go back to the American FactFinder page (Figure 2) and click on "2000 Summary File 3" under "Data Sets," and this also will take you to the Data Sets page.

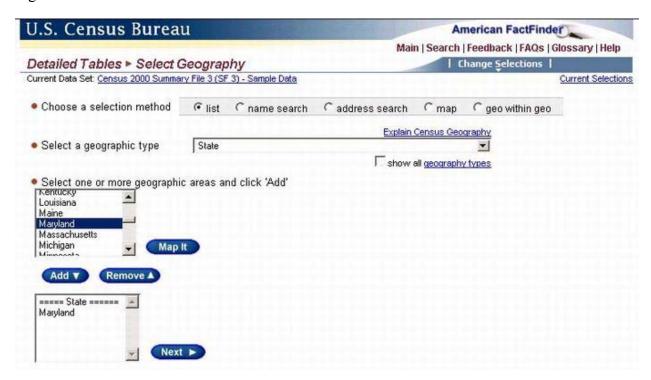
- 9. Decennial Census Data Sets Page (Figure 9)
 - Click on the button for "Census 2000 Summary File 3 (SF 3) Sample Data."
 - Click on "Detailed Tables" at the right.

Figure 9:



- 10. Screen for "Detailed Tables Select Geography" (Figure 10)
 - Select a geographic type (e.g. "State").
 - Select the geographic areas(s) (e.g., "Maryland").
 - Click "Add."
 - Click "Next."

Figure 10:



- 11. Screen for "Detailed Tables Select Tables" (Figure 11)
 - Scroll down list of tables and select Table "P49, Sex by Industry for the Employed Civilian Population 16+ Years".
 - Click "Add."
 - Click "Show Table."

Figure 11:



- 12. Page showing the table selected (Figure 12)
 - In the upper right part of the screen (on the same line as "Detailed Tables"), put the cursor on "Print/Download" and click "Download."

Figure 12 (this is only part of a much larger table):

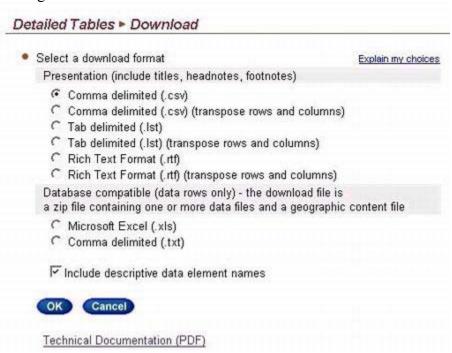
Figure 12 (this is only part of a much larger table):		
U.S. Census Bureau	American FactFinder	
	Main Search Feedback FAQs Gloss	sary Help
Detailed Tables Options Cha	nge Selections Print / Download Rela	
Detailed Fabres	A SA	y Save Quer
	Download	I Caro dao.
P49. SEX BY INDUSTRY FOR THE EMPLOYED CIVILIAN POPULATION 1	6 VEARS AND OVER 1551 -	
Universe: Employed civilian population 16 years and over	Download	
Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data		
Data Cel. Census 2000 Cammary File 3 (OF 5) - Cample Data		
NOTE: Data based on a sample except in P3, P4, H3, and H4. For information on confidenti	olity protection, compling error	
nonsampling error, and definitions see http://factfinder.census.gov/home/en/datanotes/ex		
	Maryland	
Total:	2,608,457	
Male:	1,328,420	
Agriculture, forestry, fishing and hunting, and mining:	12,141	
Agriculture, forestry, fishing and hunting	10,603	
Mining	1,538	
Construction	159,685	
Manufacturing	130,362	
Wholesale trade	51,270	
Retail trade	139,656	
Transportation and warehousing, and utilities:	92,762	
Transportation and warehousing	76,291	
Utilities	16,471	
Information	55,824	
Finance, insurance, real estate and rental and leasing:	77,609	
Finance and insurance	49,920	
Real estate and rental and leasing	27,689	
Professional, scientific, management, administrative, and waste management services	176,094	
Professional, scientific, and technical services	125,906	
Management of companies and enterprises	429	
Administrative and support and waste management services	49,759	
Educational, health and social services:	139,525	
Educational services	72,608	
Health care and social assistance	66,917	
Arts, entertainment, recreation, accommodation and food services:	88,683	
Arts, entertainment, and recreation	22,532	

13. Screen for "Detailed Tables – Download" (Figure 13)

Note: as with Step 7 above, the instructions shown in this step should work when using Internet Explorer, but may NOT work exactly as described for Netscape and other internet browsers. If you had to use the alternate instructions provided after Instruction 8 above to download the 1990 data, then use the same instructions here instead of 13 and 14 to download the 2000 data. The final result should look like Figure 14 below.

- Click the button for "Comma delimited (.csv)." (It may already be filled.) Do not click the button called "Microsoft Excel (.xls)," even though that may seem logical.
- Click "OK."

Figure 13:



- 14. At this point an inset should appear that asks whether you want to open or save this file. Open the file first to be sure you have the right table. It should look something like Figure 14 below, but the column widths may appear squeezed.
 - Adjust the column widths if desired, although this is not necessary for the next steps. If adjusted, the table will look more like Figure 14.
 - Now save the file. In the upper left toolbar, click "File," and then "Save As." <u>It is</u> absolutely necessary that you save the file in a place where you can find it later by following steps a-e directly below.
 - a. Designate a hard drive (for example, "C" or "D").
 - b. Designate a directory or folder in which to save your file.
 - c. Change the file type to Excel.
 - d. Your computer may have given the file a default name like "DownloadDT." Change the file name to one that you will recognize, like "2000inddata-MD."
 - e. Click "Save."

Figure 14: (on next page)

P49. SEX BY INDUSTRY FOR THE EMPLOYED CIVILIAN POPULATION 16	
YEARS AND OVER [55] - Universe: Employed civilian population 16 years	
and over	
Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data	
NOTE: Data based on a sample except in P3, P4, H3, and H4. For	
information on confidentiality protection, sampling error, nonsampling error,	
and definitions see	
http://factfinder.census.gov/home/en/datanotes/expsf3.htm.	
	Maryland
Total:	2,608,457
Male:	1,328,420
Agriculture, forestry, fishing and hunting, and mining:	12,141
Agriculture, forestry, fishing and hunting	10,603
Mining	1,538
Construction	159,685
Manufacturing	130,362
Wholesale trade	51,270
Retail trade	139,656
Transportation and warehousing, and utilities:	92,762
Transportation and warehousing	76,291
Utilities	16,471
Information	55,824
Finance, insurance, real estate and rental and leasing:	77,609
Finance and insurance	49,920
Real estate and rental and leasing	27,689
Professional, scientific, management, administrative, and waste management	176,094
Professional, scientific, and technical services	125,906
Management of companies and enterprises	429
Administrative and support and waste management services	49,759
Educational, health and social services:	139,525
Educational services	72,608
Health care and social assistance	66,917

Part 2: Copying the 1990 and 2000 Data into the Template and Creating the Crosswalks

- 1. If you have not already copied or downloaded the Template, go back to the Industry Table Crosswalk Menu page from which you downloaded these instructions. Open the Template from this website (the third item on the Menu page). Most of the cells are blank, but some contain zeros. The template will automatically compute data for the zero cells once you start copying data to the blank cells. Copy data from other files only into the blank cells, as described in the next steps.
- 2. Go to the file you created containing the 1990 data (e.g. "1990inddata-MD"). Use the "Window" feature in your top toolbar to toggle between files. Data (numbers) should appear in column B under the name of the geographic area you selected (e.g., "Maryland"). The first line with a number should be the one for "Agriculture, forestry, and fisheries."
 - Copy the cells in column B of this table for "Agriculture, forestry, and fisheries" through "Public administration" (18 cells total) into Template Section 1, column **D**, rows **12-29**. (Note: one cell is blank.)
 - The Template Section 1 should look like Figure 15. At this point the Template will automatically provide a Total in cell D11, transfer figures to Section 3, convert the data to the 2000 categories in Sections 4 and 5, and copy the results to Section 6.

Figure 15:

1990-2000 Census Tabulation Crosswalk Templa	ite: Industry
Area: Maryland	
Level 1: Most Basic, Broadest Categories	
Direction: Changes from 1990 Categories to 200	0 Categories (1990-2000)
Section 1: Copy the Following Data From the 199	0 Census STF-3 Detailed Tables
P077. INDUSTRY - Universe: Employed persons	16 years and over
Note: 1990 STF-3 provides data for Total Emplo	ged only.
Ann an an ann an an an an an an an an an	Total
Employed persons 16 years and over	2,481,342
Agriculture, forestry, and fisheries (000-039)	37,642
Mining (040-059)	3,535
Construction (060-099)	195,504
Manufacturing, nondurable goods (100-229)	112,176
Manufacturing, durable goods (230-399)	142,768
Transportation (400-439)	106,173
Communications and other public utilities (440-499)	68,909
Wholesale trade (500-579)	94,847
Retail trade (580-699)	372,510
Finance, insurance, and real estate (700-720)	182,484
Business and repair services (721-760)	136,718
Personal services (761-799)	67,995
Entertainment and recreation services (800-811)	29,765
Professional and related services (812-899):	
Health services (812-840)	214,313
Educational services (842-860)	197,133
Other professional and related services (841, 861-899)	227,593
Public administration (900-939)	291,277

Go to the file you created containing the 2000 data (e.g. "2000inddata-MD"). Data (numbers) should appear in column B under the name of the geographic area you selected (e.g., "Maryland"). The first line with a number should be the one for "Total:."

- Copy the 27 cells in column B for "Male:" through "Public administration" (omit "Total" and stop just before "Female") to Template Section 2, column I, rows 11-37.
- Copy the next 27 cells in column B for "Female:" through "Public administration" to Template Section 2, column J, rows 11-37.
- The Template will automatically compute totals in section 2, column K, and transfer figures to Section 6. Template Sections 1 and 2 should look like Figure 16.

Figure 16 (on next page):

1990-2000 Census Tabulation Crosswalk Template: Industry			T T		
Area: Maryland					
Level 1: Most Basic, Broadest Categories		_			
Direction: Changes from 1990 Categories to 2000 Categories (1990-2000)		_			
Direction. Changes from 1330 Categories to 2000 Categories (1330-2000)					
Section 1: Copy the Following Data From the 1990 Census STF-3 Detailed Tab	les:	Section 2: Copy the Following Data From the Census 2000 SF-3	Detailed Table	ie.	
P077. INDUSTRY - Universe: Employed persons 16 years and over	ico.	P51. SEX BY INDUSTRY FOR THE EMPLOYED CIVILIAN POPULA			
TOTAL INDUCTION CHINDIOGO Employed personic to your date over		Note: 2000 SF-3 provides data for employed by sex; copy data	THOIT IO IE	NO AND OVER	
		using instructions provided into the Male & Female columns;			
Note: 1990 STF-3 provides data for Total Employed only.		this table will compute the Total column.			
The second secon		this table will compute the Total column.	 		
	Total		Male:	Female:	Total:
Employed persons 16 years and over	2,481,342	Total (Civilian Employed Population 16 and Over):	1,328,420	1,280,037	2,608,457
Agriculture, forestry, and fisheries (000-039)	37,642	Agriculture, forestry, fishing and hunting, and mining:	12,141	4,037	16,178
Mining (040-059)	3,535	Agriculture, forestry, fishing and hunting	10,603	3,810	14,413
Construction (060-099)	195,504	Mining	1,538	227	1.765
Manufacturing, nondurable goods (100-229)	112,176	Construction	159,685	21,595	181,280
Manufacturing, durable goods (230-399)	142,768	Manufacturing	130,362	58,965	189,327
Transportation (400-439)	106,173	Wholesale trade	51,270	21,351	72,621
Communications and other public utilities (440-499)	68,909	Retail trade	139,656	133,683	273,339
Wholesale trade (500-579)	94,847	Transportation and warehousing, and utilities:	92,762	34,532	127,294
Retail trade (580-699)	372,510	Transportation and warehousing	76,291	29,805	106,096
Finance, insurance, and real estate (700-720)	182,484	Utilities	16,471	4,727	21,198
Business and repair services (721-760)	136,718	Information	55,824	47,527	103,351
Personal services (761-799)	67,995	Finance, insurance, real estate and rental and leasing:	77,609	108,550	186,159
Entertainment and recreation services (800-811)	29,765	Finance and insurance	49,920	82,526	132,446
Professional and related services (812-899):		Real estate and rental and leasing	27,689	26,024	53,713
		Professional, scientific, management, administrative, and waste			
Health services (812-840)	214,313	management services:	176,094	147,740	323,834
Educational services (842-860)	197,133	Professional, scientific, and technical services	125,906	107,760	233,666
Other professional and related services (841, 861-899)	227,593	Management of companies and enterprises	429	493	922
Public administration (900-939)	291,277	Administrative and support and waste management services	49,759	39,487	89,246
		Educational, health and social services:	139,525	398,825	538,350
		Educational services	72,608	163,603	236,211
		Health care and social assistance	66,917	235,222	302,139
		Arts, entertainment, recreation, accommodation and food services:	88,683	88,658	177,341
		Arts, entertainment, and recreation	22,532	18,600	41,132
		Accommodation and food services	66,151	70,058	136,209
		Other services (except public administration)	66,263	79,161	145,424
		Public administration	138,546	135,413	273,959

At this point the converted 1990 data will appear next to the 2000 data in Template Section 6. Section 6 also computes the 1990-2000 changes in terms of the 2000 Census categories. Insert the geographic area name in row 2, and save the file with a new name. Sections 5 and 6 of the final product should look like Figure 17.

Figure 17 (on next page):

try					
-					+
ies (1990-200	0)				1
egories (13)		'	Section 6: Comparison of 1990 to 2000, Using Census 2000 Industrial Category Definition	ıs	
Label	2000 Codes	Number Employed		Number Employed, Census 2000	Percent Change, 1990- 2000
2KAGM	017-049	33,257	Agriculture, forestry, fishing and hunting, and mining: 33,2	57 16,178	
2KCON	077	192,060	Construction 192,0	181,280	
2KMFG	107-399	249,426	Manufacturing 249,4	26 189,327	7 -24.1%
2KWHL	407-459	93,723	Wholesale trade 93,7	72,621	1 -22.5%
2KRET	467-579	258,510	Retail trade 258,5		
2KTWU	057-069,607-639	130,020	Transportation and warehousing, and utilities: 130,0	20 127,294	-2.1%
			Transportation and warehousing 101,5	76 106,096	4.5%
			Utilities 28,4	14 21,198	-25.5%
2KINF	647-679	65,412			
2KFIL	687-719	184,981		,	
			11 11 11 11 11 11 11 11 11 11 11 11 11	00 53,713	7.9%
2KPSM	727-779	228,114	maste management controce.		
2KEHS	786-847	469,078	Educational, health and social services: 469,0		
			Educational services 192,2	236,211	
				78 302,139	9.1%
			Arts, entertainment, recreation, accommodation and food		1
2KAEF	856-869	166,024			
2KOTS		118,562			
2KPUB	937-959	292,177	Public administration 292,1	77 273,959	-6.2%
		2 481 342	TOTAL 2.481.3	12 2 608 457	7 5.1%
		2,401,042	2,401,3	2,000,407	J. 1 /0
					+
					1
	Label 2KAGM 2KAGM 2KMFG 2KWHL 2KRET 2KTWU 2KINF 2KFIL te 2KPSM	Label 2000 Codes 2KAGM 017-049 2KCON 077 2KMFG 107-399 2KWHL 407-459 2KRET 467-579 2KTWU 057-069,607-639 2KINF 647-679 2KFIL 687-719 te 2KPSM 727-779 2KEHS 786-847 2KAEF 856-869 2KOTS 877-929	Number Employed 2KAGM 017-049 33,257	Number Label 2000 Codes Employed 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2	Section 6: Comparison of 1990 to 2000, Using Census 2000 Industrial Category Definitions Number Employed, 1990 Census Number Employed, 1990 Census